

INDUSTRIAL & ENTREPRENEURIAL ENGINEERING										2018-2019					
Cr. Hrs.	SEM 1	Cr. Hrs.	SEM 2	Cr. Hrs.	SEM 3	Cr. Hrs.	SEM 4	Cr. Hrs.	SEM 5	Cr. Hrs.	SEM 6	Cr. Hrs.	SEM 7	Cr. Hrs.	SEM 8
4	MATH 1220 or 1700 Calculus I	4	MATH 1230 or 1710 Calculus II	4	MATH 2720 Multivariate Calculus	4	IEE 2050 Work Design (L) (Sp)	4	MATH 3740 Differential Equations & Linear Algebra	3	IEE 3110 Intro to Operations Research (Sp)	3	IEE 4010 Entrepreneurial Engineering III: Facilities Planning & Logistics (F)	3	IEE 4190 IE Senior Design (F, Sp)
	MATH 1180 ≥ or placement		MATH 1220 or 1700 ≥ C		MATH 1230 or 1710 ≥ C		IEE 1020 MATH 1220 or 1700 ≥ C Co-requisite Recommended IME 2610		MATH 2720 ≥ C		IEE 2610 ≥ C		IEE 3010 ≥ D IEE 3110 ≥ D IEE 3300 ≥ D		Department Approval
3+ 1	CHEM 1100+1110 General Chemistry I (L)	4+ 1	PHYS 2050+2060 University Physics I (L)	4+ 1	PHYS 2070+2080 University Physics II (L)	2	IEE 2621 Probability for Engineers (Sp)	3	IEE 3010 Entrepreneurial Engineering II: Product & Service Design (F)	3	IEE 3300 Simulation Modeling Analysis (Sp)	4	IEE 4160 Operations Control In Industry (F)	3	Internship (IEE 2990) / INTERNATIONAL STUDIES**
	MATH 1110 ≥ C or placement		MATH 1220 or 1700 ≥ C MATH 1230 or 1710 ≥ C or taken concurrently		MATH 1230 or 1710 ≥ C PHYS 2050 ≥ C MATH 2720 or 2300 ≥ C or taken concurrently		Co-requisite MATH 2720 (may be taken concurrently)		Junior or senior standing or instructor approval		IEE 2620 or 2621 ≥ D IEE 2050 ≥ C (Either may be taken concurrently)		IEE 2010 ≥ D IEE 2050 ≥ D IEE 3110 ≥ D IEE 3300 ≥ D		or Approved Technical Elective
3	IEE 1020 Technical Communication (F, Sp)	1	CS 1023 Intro to Engineering Computing II (L) (F, Sp)	3	IEE 2610 Engineering Statistics (L) (F, Sul)	2	IEE 2622 Statistical Quality Control (Sp)	3	IEE 3100 Engineering Economy (F, Sp, Sul)	3	IEE 3420 Ergonomics and Design (Sp)	1	IEE 4190 IE Senior Design (F, Sp)	3	APPROVED TECHNICAL ELECTIVE**
	ENGL 1000 or placement		MATH 1180 ≥ C		MATH 1220 or 1700 ≥ C		IEE 2610 ≥ C		MATH 1230 ≥ C Junior Standing				Department Approval		
3	EDMM 1420 Engineering Graphics (L) (F, Sp, Sul)	3	IEE 2010 Entrepreneurial Engineering I: Cost & Financial Analysis (Sp)	3	ME 2560 Statics (F, Sp, Sul)	3	ECON 2010 Principles of Microeconomics	3	IEE 3160 Report Preparation (F, Sp, Sul)	4	ECE 2100 Circuit Analysis (L) (F, Sp, Sul)	3	APPROVED TECHNICAL ELECTIVE**	3	MINOR ELECTIVE**
					MATH 1230 or 1710 ≥ C PHYS 2050/2060 ≥ C				IEE 1020 ≥ C Junior Standing		Math 1230 or 1710 ≥ C PHYS 2070 ≥ C or taken concurrently				
		3	GEN ED I* Fine Arts			3	MINOR ELECTIVE**	3	MINOR ELECTIVE**	3	MINOR ELECTIVE**	3	MINOR ELECTIVE**	3	GEN ED IV* Other Cultures and Civilizations
						3	GEN ED II* Humanities					3	GEN ED III* U.S. Culture and Issues	2	GEN ED VIII* Health & Wellness
	14 hours		16 hours		15 hours		17 hours		16 hours		16 hours		17 hours		17 hours
															128 total hours

NOTES: Prerequisite courses are shown in smaller print.

39 Cr. Pre-Engineering

54 Cr. IEE Req.

14 Cr. Gen Ed Req.

21 Cr. IEE Elective Req.

* See your academic advisor for General Education requirements;

at least two must be 3000-4000 level.

A 'C' or better is required for

INDUSTRIAL & ENTREPRENEURIAL ENGINEERING

Approved Technical Electives

Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective	Cr. Hrs.	Elective
3	ECE 2110 Machines & Electronic Circuits	3	ECE 2120 Electronic Circuits & Systems	4	ECE 2210 Electronics I	3	ECE 2500 Digital Logic	3	ME 2320 Thermodynamics I
	ECE 2100 ≥ C		PHYS 2070 ≥ C or taken concurrently		ECE 2100 ≥ C		MATH 1110 ≥ C		MATH 1230 or 1710 ≥ C
			MATH 3740 ≥ C		PHYS 2070 ≥ C				PHYS 2050/2060 ≥ C
3	ME 2500 Materials Science for Engineers	3	ME 2570 Mechanics of Materials	3	ME 2580 Dynamics	3	CHEG 2611 Environmental Engineering I		
	ME 2615 or 2200 or EDMM 1500 ≥ C		ME 2560 ≥ C		ME 2560 or 2530 ≥ C		CHEM 1100/1110 ≥ C		
	CHEM 1100/1110 ≥ C				PHYS 2050/2060 ≥ C		MATH 1230 or 1710 ≥ C		
	MATH 1230 or 1710 ≥ C								
1 - 3	IEE 2990 Cooperative Education	3	IEE 5200 Modern Industrial Practices						
	OR IEE 5200 (not both)		OR IEE 2990 (not both)						